



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

In re Application of: :  
Stupp et al. : Confirmation No. 2444  
Serial No. 10/534,097 ✓ : Group Art Unit: 1653  
Filed: November 8, 2005 : Examiner: Not Assigned

For: COMPOSITION AND METHOD FOR SELF-ASSEMBLY AND  
MINERALIZATION OF PEPTIDE-AMPHIPHILES

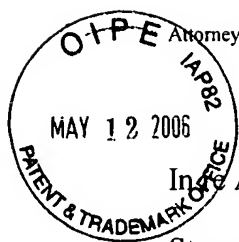
Date Mailed: May 9, 2006

I HEREBY CERTIFY THAT THIS INFORMATION DISCLOSURE STATEMENT IS BEING  
DEPOSITED WITH THE UNITED STATES POSTAL SERVICE VIA FIRST CLASS MAIL  
UNDER 37 CFR 1.8 AND IS ADDRESSED TO MAIL STOP AMENDMENT,  
COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450

Kathleen Pujol  
(Typed or printed name of person mailing paper or fee)

\_\_\_\_\_  
(Signature of person mailing paper or fee)

Documents Mailed:  
Information Disclosure Statement (2 pages)  
Form PTO-1449 (2pages)  
Cited References: (17)  
Certificate of Mailing  
Postcard



Attorney Docket No. 126481.01211

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Stupp et al.

Serial No. 10/534,097

Filed: November 8, 2005

:

: Confirmation No.: 2444

: Group Art Unit: 1653

: Examiner: Not Yet Assigned

For: COMPOSITION AND METHOD FOR SELF-ASSEMBLY AND  
MINERALIZATION OF PEPTIDE-AMPHIPHILES

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

AUTHORIZATION

No fee is required. The Commissioner is hereby authorized to charge any additional fees which may be required for this submission, or credit any overpayment to Deposit Account No. 50-0436.

Respectfully submitted,

PEPPER HAMILTON LLP



Raymond A. Miller  
Registration No. 42,891

Pepper Hamilton LLP  
One Mellon Bank Center  
50<sup>th</sup> Floor  
500 Grant Street  
Pittsburgh, PA 15219  
Telephone: (412) 454-5813  
Facsimile: (412) 281-0717  
Date: May 9, 2006



Substitute for form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

## **Complete if Known**

<b>Application Number</b>	10/534,097
<b>Filing Date</b>	November 8, 2005
<b>First Named Inventor</b>	Stupp
<b>Group Art Unit</b>	1653
<b>Examiner Name</b>	Not Yet Assigned
<b>Attorney Docket Number</b>	126481.01211

Sheet 1 of 2

## **U.S. PATENT DOCUMENTS**

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number	Kind Code (if known)				
	AA	US 2003/0176335	A1	Zhang et al.	09-18-2003		
	AB	US 6,096,863		Fields et al.	08-01-2000		
	AC	US 5,993,541		Litvin et al.	11-30-1999		

## **FOREIGN PATENT DOCUMENTS**

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		T
		Office	Number	Kind Code (if known)					
	BA	WO	2005/003292	A2	Northwestern University	01-13-2005			
	BB	WO	2003/070749	A2	Northwestern University	08-28-2003			
	BC	WO	1998/07752	A1	Regents of the Univ. of Minn.	02-26-1998			

## **OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T
	CA	HARTGERINK et al., Self-Assembly and Mineralization of Peptide-Amphiphile Nanofibers, 2001, Science 294:1684-1688	
	CB	AGGELI et al., Responsive gels formed by the spontaneous self-assembly of peptides into polymeric $\beta$ -sheet tapes, 1997, Nat., 259-262	
	CC	HOLMES et al., 2000 (Reference to be provided at a later date)	
	CD	HARTGERINK et al., Peptide-amphiphile nanofibers: A versatile scaffold for the preparation of self-assembling materials, 2002, PNAS 99(8):5133-5138	
	CE	ZHANG et al., 1995 (Reference to be provided at a later date)	
	CF	CAPLAN et al., Self-Assembly of a $\beta$ -Sheet Protein Governed by Relief of Electrostatic Repulsion Relative to van der Waals Attraction, 2000, Biomacromolecules 1:627-631	
	CG	HARRIS, 1991, #93 (Reference to be provided at a later date)	
	CH	ISAAC et al., Approaching Exponential Growth with a Self-Replicating Peptide, 2002, J. Am. Chem. Soc. 124:6808-6809	
	CI	SANTOSO et al., Structures, function and applications of amphiphilic peptides, 2002, Curr. Op. Colloid and Interface Sci. 7:262-266	
	CJ	BUSQUE et al., Progress toward a Peptidomimetic of Laminin-Derived Pentapeptide YIGSR: Synthesis of the Unique Tricyclic Core Structure, 2002, J. Org. Chem. 67:6097-6103	
	CK	NIECE et al., Self-Assembly Combining Two Bioactive Peptide-Amphiphile Molecules into Nanofibers by Electrostatic Attraction, 2003, J. Am. Chem. Soc. 125:7146-7147	
	CL	ZHANG, Fabrication of novel biomaterials through molecular self-assembly, 2003, Nature Biotech. 21(10):1171-1178	
	CM	AIZENBERG, et al., Control of crystal nucleation by patterned self-assembled monolayers, 1999, Nature 398:495-498	
	CN	BRAUN et al., CdS Mineralization of Hexagonal, Lamellar, and Cubic Lyotropic Liquid Crystals, 1999, Mat. Res. Bull. 34(3):463-469	
	CO	XU, Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films. Evidence for a Multistep Assembly Process, 1998, J. Am. Chem. Soc. 120:11977-11985	



<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				<b>Application Number</b>	10/534,097
				<b>Filing Date</b>	November 8, 2005
				<b>First Named Inventor</b>	Stupp
				<b>Group Art Unit</b>	1653
				<b>Examiner Name</b>	Not Yet Assigned
<b>Sheet</b>	2	<b>of</b>	2	<b>Attorney Docket Number</b>	126481.01211
	CP	MURATA et al., Membrane Fusion Induced by Mutual Interaction of the Two Charge-reversed Amphiphilic Peptides at Neutral pH, 1991, J. Biol. Chem. 266(22):14353-14358			
	CQ	YAMADA et al., Formation of Helical Super Structure from Single-Walled Bilayers by Amphiphiles with Oligo-L-Glutamic Acid-Head Group, 1984, Chemistry Letters, 10:1713-1716			
<b>Examiner Signature</b>				<b>Date Considered</b>	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.